ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT:
Access Analytical, Inc.
7478 Carlisle St.
Irmo, SC 29063
ATTN: Ashley Amick

PROJECT:
New Indy

DATE:
05.20.21

Primary Data Review By:

Bonnie Wang

Project Manager, Pace Analytical

Secondary Data Review By:

Ashley B. Amick

Project Manager, Access Analytical
aamick@axs-inc.com

Notes:

- Unless otherwise noted, all analysis on this report performed at Pace Analytical Services, Inc. For a list of analyzing locations and certifications, please see page 3 of included analytical report.

- Local support services for this project are provided by Access Analytical, Inc. Please direct all questions regarding this project to your Access Analytical project manager at 803-781-4243 or at the email address listed above.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

Ashley Amick
Access Analytical, Inc.
7478 Carlisle St.
Irmo, SC 29063

RE: Project: New Indy
Pace Project No.: 92537442

Dear Ashley Amick:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: New Indy
Pace Project No.: 92537442

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92537442001	**002**	Water	05/03/21 11:00	05/06/21 16:25
92537442002	**001U**	Water	05/03/21 12:35	05/06/21 16:25
92537442003	**003**	Water	05/03/21 13:12	05/06/21 16:25
92537442004	**004**	Water	05/03/21 13:44	05/06/21 16:25
92537442005	**005**	Water	05/03/21 11:20	05/06/21 16:25
92537442006	**006**	Water	05/03/21 13:19	05/06/21 16:25

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project:
Pace Project No.:

Method:
Description:
Client:
Date:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #:

WO# : 92537442

92537442

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 11-5-21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 92T064 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.1

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☒ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WW	☒ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☒ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☒ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☒ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

One vial from 002, all 003 vials, all 004 vials, and two 005 vials have improper headspace.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

WO# : 92537442

PM: BV Due Date: 05/13/21

CLIENT: 92-Access

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A
1	\				\	\	\	\			\		\	\	\			3							\	\			
2	\				\	\	\	\			\		\	\	\			3							\	\			
3	\				\	\	\				\		\	\	\			3							\	\			
4	\				\	\	\	\			\		\	\	\			3							\	\			
5	\				\	\	\	\			\		\	\	\			3							\	\			
6	\				\	\	\	\			\		\	\	\			3							\	\			
7	\				\	\	\	\			\		\	\	\										\	\			
8	\				\	\	\				\		\	\	\										\	\			
9	\				\	\	\	\			\		\	\	\										\	\			
10	\				\	\	\	\			\		\	\	\										\	\			
11	\				\	\	\	\			\		\	\	\										\	\			
12	\				\	\	\	\			\		\	\	\										\	\			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Access Lab Report #: _____
Sub Lab (if applicable): _____ / Sub Report #: _____
Client Purchase Order #: _____
Access Estimate #: _____

Access Analytical, Inc.
15 Thames Valley Rd. ~ Irmo, SC 29063
Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com
SCDHEC Lab Certification # 32571
NELAC Lab ID # E871145

Chain of Custody Record

Client:	SCDHEC			Preservatives (see codes):	O O
Attn:	Paul Miller			Bottle Types (see codes):	P G
Address:	2600 Bull St				
City:	Columbia	State: SC	Zip Code: 29201		
Phone:	803 896 0850	Fax:			
Email:	Millerpm@dhec.sc.gov				
Project Name:	New Indy				
Sampled By (Signature):					

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, **1** = HCL, **2** = HNO_3, **3** = H_2SO_4, **4** = NaOH, **5** = $Na_2S_2O_3$, **6** = Method 5035 set w/ $NaHSO_4$ & CH_3OH, **7** = NaOH/ZnOAC, **8** = H_3PO_4, **9** = cooled to ≤6°C, **10** = cooled to ≤10°C, **11** = Amm.Cl-, **12** = Ascorbic Acid / HCL, **13** = EDA

*Matrix Codes:
GW = ground water, **WW** = waste water, **DW** = drinking water, **SW** = surface/storm water, **S** = soil, **SL** = sludge, **A** = air, **IW** = industrial waste, **O** = other (specify in comments section)

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), **SDWA** = Safe Drinking Water Act (for drinking water), **SHW** = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

***Container Type:** G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	C=Comp G=Grab	Matrix (see codes)	Program Area (see codes)	Total # Containers	# Containers per Test >>	REQUESTED LAB ANALYSIS: → CTAS *	TRS ASTM D5504							Notes / Comments
	002	5/3/2021	1100	G	WW	CWA	4	1	3							001	Millermw@dhec.sc.gov
	001U	5/3/2021	1235	G	WW	CWA	4	1	3							002	* rancerc
	003	5/3/2021	1312	G	WW	CWA	4	1	3							003	
	004	5/3/2021	1344	G	WW	CWA	4	1	3							004	
	005	5/4/2021	1120	G	WW	CWA	4	1	3							005	
	006	5/4/2021	1319	G	WW	CWA	4	1	3							006	
								# Containers per Test >>									
								# Containers per Test >>									
								# Containers per Test >>									
								# Containers per Test >>									MATTHEW MILLER
								# Containers per Test >>									SONYA JOHNSON

Turnaround Time Requested:		Project Location:	Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard		SC ✓		Sonya C. Johnson	5/4/2021	1511	___Y ___N ___N/A
Rush *		NC	Sonya C. Johnson	eMartin	5/4/21	1548	X Y ___N ___N/A cooler 1: 1.7°C cooler 2: 2.1°C
*Date Required		Other (Specify):		Pace National Lewis	5-6-21	11:05	X Y ___N ___N/A RT1
							___Y ___N ___N/A

Rush data emailed/faxed by end of business day on date required.
Standard TAT is 7-10 business days.

Received in lab by: _____

Sample Temp. Received in Lab: 2.1 (°C)
Ref: RT1 **Ref: RT2**

Chain of Custody Page _____ **of** _____

White Copy: Lab original / Canary Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Client:
Client Sample ID:
Client Project ID:

Project ID: P120XXXX
Sample ID: P120XXXX-001

20 Reduced Sulfur (in Liquid) Example Report

Test Code:	GC/SCD Reduced Sulfur Analysis	Date Collected:	12/6/2012
Instrument ID:	Agilent 6890A/GC13/SCD	Date Received:	12/7/2012
Analyst:	Wade Henton	Date Analyzed:	12/12/2012
Matrix:	Water	Liquid Amount:	10.0 ml(s)
Test Notes:		Purge Volume:	0.30 Liter(s)
		Injection Volume(s):	1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	ND	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	ND	1.5	
75-15-0	Carbon Disulfide	ND	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	ND	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:_____ Date:_____

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

May 20, 2021

Bonnie Vang
Pace Analytical
9800 Kincey Ave., Suite 100
Huntersville, NC 28078

RE: New Indy / 92537442

Dear Bonnie:

Enclosed are the results of the samples submitted to our laboratory on May 12, 2021. For your reference, these analyses have been assigned our service request number P2102571.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 12:01 pm, May 20, 2021

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Pace Analytical
Project: New Indy / 92537442

Service Request No: P2102571

CASE NARRATIVE

The samples were received intact under chain of custody on May 12, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Pace Analytical
Project ID: New Indy / 92537442

Service Request: P2102571

Date Received: 5/12/2021
Time Received: 09:45

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Sulfur Liq - Sulfur
002	P2102571-001	Water	5/3/2021	11:00	X
001U	P2102571-002	Water	5/3/2021	12:35	X
003	P2102571-003	Water	5/3/2021	13:12	X
004	P2102571-004	Water	5/3/2021	13:44	X
005	P2102571-005	Water	5/3/2021	11:20	X
006	P2102571-006	Water	5/3/2021	13:19	X

P21002571

Chain of Custody

PASI Charlotte Laboratory

Pace Analytical
www.pacelabs.com

Workorder: 92537442 **Workorder Name:** New Indy **Results Requested By:** 5/20/2021

Report / Invoice To	Subcontract To
Bonnie Vang Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: bonnie.vang@pacelabs.com	ALS Environmental P.O. BV92537442 2655 Park Center Dr # A, Simi Valley, CA 93065

State of Sample Origin: SC

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	TRS ASTM D550-4 Sulfur	LAB USE ONLY
1	002	5/3/2021 11:00	92537442001	Water	3	X	
2	001U	5/3/2021 12:35	92537442002	Water	3	X	
3	003	5/3/2021 13:12	92537442003	Water	3	X	
4	004	5/3/2021 13:44	92537442004	Water	3	X	
5	005	5/3/2021 11:20	92537442005	Water	3	X	
6	006	5/3/2021 13:19	92537442006	Water	3	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	FED EX HVL 5/11	2021 1800		
2				
3				J-1221

Comments: 09YT

Cooler Temperature on Receipt °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

2° WT

5 of 15

ALS Environmental
Sample Acceptance Check Form

Client: Pace Analytical Services Inc - NC Work order: P2102571

Project: New Indy / 92537442

Sample(s) received on: 5/12/21 Date opened: 5/12/21 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☒	☐	☐
	Cooler Temperature: 2° C Blank Temperature: ° C	Wet Ic		
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☒	☐	☐
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☒	☐	☐
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☒	☐	☐
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2102571-001.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-001.02	40mL VOA NP				A	
P2102571-001.03	40mL VOA NP				A	
P2102571-002.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-002.02	40mL VOA NP				A	
P2102571-002.03	40mL VOA NP				A	
P2102571-003.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-003.02	40mL VOA NP				A	
P2102571-003.03	40mL VOA NP				A	
P2102571-004.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-004.02	40mL VOA NP				A	
P2102571-004.03	40mL VOA NP				A	
P2102571-005.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-005.02	40mL VOA NP				A	
P2102571-005.03	40mL VOA NP				A	

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS Environmental
Sample Acceptance Check Form

Client: Pace Analytical Services Inc - NC Work order: P2102571

Project: New Indy / 92537442

Sample(s) received on: 5/12/21 Date opened: 5/12/21 by: ADAVID

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2102571-006.01	40mL VOA NP		6	1	A	GG 5/18/21
P2102571-006.02	40mL VOA NP				A	
P2102571-006.03	40mL VOA NP				A	

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **002**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-001

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 0.30 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	**1,800**	2.8	
463-58-1	Carbonyl Sulfide	ND	4.9	
74-93-1	Methyl Mercaptan	**53**	3.9	
75-08-1	Ethyl Mercaptan	ND	5.1	
75-18-3	Dimethyl Sulfide	**17**	5.1	
75-15-0	Carbon Disulfide	ND	3.1	
75-33-2	Isopropyl Mercaptan	ND	6.2	
75-66-1	tert-Butyl Mercaptan	ND	7.4	
107-03-9	n-Propyl Mercaptan	ND	6.2	
624-89-5	Ethyl Methyl Sulfide	ND	6.2	
110-02-1	Thiophene	ND	6.9	
513-44-0	Isobutyl Mercaptan	ND	7.4	
352-93-2	Diethyl Sulfide	ND	7.4	
109-79-5	n-Butyl Mercaptan	ND	7.4	
624-92-0	Dimethyl Disulfide	**5.8**	3.9	
616-44-4	3-Methylthiophene	ND	8.0	
110-01-0	Tetrahydrothiophene	ND	7.2	
638-02-8	2,5-Dimethylthiophene	ND	9.2	
872-55-9	2-Ethylthiophene	ND	9.2	
110-81-6	Diethyl Disulfide	ND	5.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **001U**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-002

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	**190**	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	**6.1**	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	**25**	1.5	
75-15-0	Carbon Disulfide	**3.4**	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	**5.4**	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **003**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-003

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	**5.1**	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	ND	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	**430**	1.5	
75-15-0	Carbon Disulfide	ND	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	**160**	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **004**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-004

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	**200**	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	**1.7**	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	**670**	1.5	
75-15-0	Carbon Disulfide	ND	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	**320**	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **005**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-005

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 0.050 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	**15,000**	17	
463-58-1	Carbonyl Sulfide	ND	29	
74-93-1	Methyl Mercaptan	**1,300**	24	
75-08-1	Ethyl Mercaptan	ND	30	
75-18-3	Dimethyl Sulfide	**2,400**	30	
75-15-0	Carbon Disulfide	ND	19	
75-33-2	Isopropyl Mercaptan	ND	37	
75-66-1	tert-Butyl Mercaptan	ND	44	
107-03-9	n-Propyl Mercaptan	ND	37	
624-89-5	Ethyl Methyl Sulfide	ND	37	
110-02-1	Thiophene	ND	41	
513-44-0	Isobutyl Mercaptan	ND	44	
352-93-2	Diethyl Sulfide	ND	44	
109-79-5	n-Butyl Mercaptan	ND	44	
624-92-0	Dimethyl Disulfide	**3,100**	23	
616-44-4	3-Methylthiophene	ND	48	
110-01-0	Tetrahydrothiophene	ND	43	
638-02-8	2,5-Dimethylthiophene	ND	55	
872-55-9	2-Ethylthiophene	ND	55	
110-81-6	Diethyl Disulfide	ND	30	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **006**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P2102571-006

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: 5/3/21
Date Received: 5/12/21
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	ND	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	ND	1.5	
75-15-0	Carbon Disulfide	ND	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	ND	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Pace Analytical**
Client Sample ID: **Method Blank**
Client Project ID: **New Indy / 92537442**

ALS Project ID: P2102571
ALS Sample ID: P210518-MB

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/18/21
Liquid Amount: 10 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume(s): 1.0 ml(s)

CAS #	Compound	Result µg/L	MRL µg/L	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	0.84	
463-58-1	Carbonyl Sulfide	ND	1.5	
74-93-1	Methyl Mercaptan	ND	1.2	
75-08-1	Ethyl Mercaptan	ND	1.5	
75-18-3	Dimethyl Sulfide	ND	1.5	
75-15-0	Carbon Disulfide	ND	0.93	
75-33-2	Isopropyl Mercaptan	ND	1.9	
75-66-1	tert-Butyl Mercaptan	ND	2.2	
107-03-9	n-Propyl Mercaptan	ND	1.9	
624-89-5	Ethyl Methyl Sulfide	ND	1.9	
110-02-1	Thiophene	ND	2.1	
513-44-0	Isobutyl Mercaptan	ND	2.2	
352-93-2	Diethyl Sulfide	ND	2.2	
109-79-5	n-Butyl Mercaptan	ND	2.2	
624-92-0	Dimethyl Disulfide	ND	1.2	
616-44-4	3-Methylthiophene	ND	2.4	
110-01-0	Tetrahydrothiophene	ND	2.2	
638-02-8	2,5-Dimethylthiophene	ND	2.8	
872-55-9	2-Ethylthiophene	ND	2.8	
110-81-6	Diethyl Disulfide	ND	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Pace Analytical**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2102571
Client Project ID: **New Indy / 92537442** ALS Sample ID: P210518-DLCS

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Water
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/18/21
Liquid Amount: 10.0 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume: 0.10 ml(s)

CAS #	Compound	Spike Amount LCS / DLCS ug/L	Result LCS ug/L	Result DLCS ug/L	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
7783-06-4	Hydrogen Sulfide	413	394	420	**95**	**102**	68-129	7	16	
463-58-1	Carbonyl Sulfide	774	685	738	**89**	**95**	73-149	7	15	
74-93-1	Methyl Mercaptan	620	567	627	**91**	**101**	69-136	10	17	